USA Ground Operations CIL Sheet

Critical Item:

Circuit Breaker

Criticality Category: 1S

NASA Part No: None

Total Quantity: 1

Mfg/Part No:

Westinghouse, CA-3225X / 56828D19G48

System:

60 Hertz Low Voltage Power System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
Panel P-42 Upper / CB-Main	1	Pad-B	K61-1663	353.25	39K6150023 / 20

Function:

Provides circuit overload protection for panel P-42. Panel P-42 provides 120V 60 HZ operating power to Hypergol Vapor Detection System (HVDS) equipment racks 6280 thru 6283.

Failure Mode No. Failure Mode	Fallure Cause Fallure Effect	Detection Method Time to Effect	Crit
09ELB2-001.020	Internal piece part structural failure	LPS console operator will	15
Premature Trip	Loss of power to panel P-42 and all HVDS equipment racks. Loss of hypergol vapor detection capabilities.	receive alarm indicating HVDS sensor failures	
	Fallure could allow loss of life and vehicle during hazardous conditions.	Immediate	

ACCEPTANCE RATIONALE

Design:

Rated: 600V/225A Operating load: 45 Amps Trip Set: 225 Amps

Environment is normal for application.

Molded-case circuit breaker used throughout industry.

Test:

- OMRSD File VI requires Time/Current trip tests and insulation resistance test performed prior to installation and after a fault per NETA-MTS.

Inspection:

OMRSD File VI requires inspection and maintenance prior to installation and after a fault per NETA-MTS.

Fallure History:

 Current data on test fallures, unexplained anomalies, and other fallures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no date was found on this component in the critical fallure mode.

Operational Use:

Correcting Action	Timeframe
There is no action which can be taken to mitigate the fallure effect.	
	timeframe does not apply.